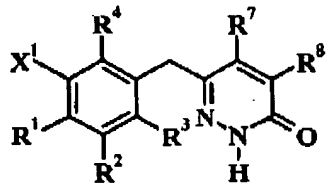
CURRENT LISTING OF CLAIMS

1. (previously amended) A compound according to formula I



(I)

wherein;

X^1 is selected from the group consisting of R^5O, $R^5S(O)_n$, R^5CH_2, R^5CH_2O, $R^5CH_2S(O)_n$, R^5OCH_2, $R^5S(O)_nCH_2$ and NR^5R^6;

R^1 and R^2 are

(i) each independently selected from the group consisting of hydrogen, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{3-8} cycloalkyl, C_{1-6} alkoxy, C_{1-6} alkylthio, C_{1-6} alkylsulfinyl, C_{1-6} sulfonyl, C_{1-6} haloalkoxy, C_{1-6} haloalkylthio, halogen, amino, alkylamino, dialkylamino, aminoacyl, nitro and cyano; or,

(ii) taken together are -CH=CH-CH=CH-, or

(iii) taken together along with the carbons to which they are attached form a five- or six-membered heteroaromatic or heterocyclic ring with a one or two heteroatoms independently selected from the group consisting of O, S and NH;

R^3 is selected from the group consisting of hydrogen, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{3-8} cycloalkyl, C_{1-6} alkylthio, C_{1-6} haloalkylthio, halogen, amino, alkylamino, dialkylamino, aminoacyl, nitro and cyano;

R^4 is selected from the group consisting of hydrogen, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{3-8} cycloalkyl, C_{1-6} alkoxy, C_{1-6} alkylthio, C_{1-6} haloalkoxy, C_{1-6} haloalkylthio, halogen, amino, alkylamino, dialkylamino, aminoacyl, nitro and cyano;

R^5 is selected from the group consisting of C_{2-6} alkyl, haloalkyl, cycloalkyl, phenyl, naphthyl, pyridinyl, pyridine N-oxide, pyridine N-oxide, indole, indole N-oxide, quinoline, quinoline N-oxide, pyrimidinyl, pyrazinyl and pyrrolyl; wherein,

said alkyl and said cycloalkyl are optionally substituted with one or two substituents independently selected from the group consisting of alkyl, hydroxy, alkoxy, thiol, alkylthio, halogen, amino, alkylamino, dialkylamino, aminoalkyl, alkylaminoalkyl, and dialkylamino; and,

said phenyl, said naphthyl, said pyridinyl, said pyridine N-oxide, said indole, said indole N-oxide, said quinoline, said quinoline N-oxide, said pyrimidinyl, said pyrazinyl and said

pyrrolyl groups are optionally substituted with one to three substituents independently selected from the group consisting of C_{1-6} alkyl, C_{1-6} alkenyl, C_{1-6} haloalkyl, C_{3-8} cycloalkyl, C_{1-6} alkoxy, C_{1-6} alkylthio, C_{1-6} alkylsulfinyl, C_{1-6} sulfonyl, C_{1-6} haloalkoxy, C_{1-6} haloalkylthio, hydroxy, halogen, amino, C_{1-6} alkylamino, C_{1-6} dialkylamino, aminoacyl, acyl, C_{1-6} alkoxycarbonyl, carbamoyl, C_{1-6} N-alkylcarbamoyl, C_{1-6} N,N-dialkylcarbamoyl, nitro and cyano;

R^6 is hydrogen, C_{1-6} alkyl, or acyl;

R^7 and R^8 taken independently are selected from the group consisting of hydrogen, amino, C_{1-6} alkylamino, C_{1-6} dialkylamino, amino-C_{1-3} alkyl, C_{1-3} alkylamino-C_{1-3} alkyl, C_{1-3} dialkylamino-C_{1-3} alkyl or C_{1-6} alkyl optionally substituted with one or two substituents independently selected from the group consisting of hydroxy, alkoxy, thiol, alkylthio, C_{1-6} alkylsulfinyl, C_{1-6} sulfonyl and halogen, N-morpholinyl;

n is an integer from 0 to 2;

or an acid addition salt thereof.

2. (previously amended) A compound according to claim 1 wherein

R^5 is selected from the group consisting of C_{2-6} alkyl, haloalkyl, cycloalkyl, phenyl, naphthyl, pyridinyl, pyrimidinyl, pyrazinyl and pyrrolyl; and,

said alkyl and said cycloalkyl are optionally substituted with one or two substituents independently selected from the group consisting of alkyl, hydroxy, alkoxy, thiol, alkylthio, halogen, amino, alkylamino, dialkylamino, aminoalkyl, alkylaminoalkyl, and dialkylamino; and,

said phenyl, said naphthyl, said pyridinyl, said pyrimidinyl, said pyrazinyl and said pyrrolyl groups are optionally substituted with one to three substituents independently selected from the group consisting of C_{1-6} alkyl, C_{1-6} haloalkyl, C_{3-8} cycloalkyl, C_{1-6} alkoxy, C_{1-6} alkylthio, C_{1-6} alkylsulfinyl, C_{1-6} sulfonyl, C_{1-6} haloalkoxy, C_{1-6} haloalkylthio, halogen, alkylamino, dialkylamino, aminoacyl, cyano, and acyl.

3. (original) A compound according to claim 2 wherein:

X^1 is OR^5 or SR^5;

R^3 is hydrogen or fluoro;

R^4 is selected from the group consisting of hydrogen, chloro, fluoro and methyl;

R^5 is optionally substituted phenyl; and,

R^7 and R^8 are selected from the group consisting of hydrogen, amino, C_{1-6} alkylamino, C_{1-6} dialkylamino, amino-C_{1-3} alkyl, C_{1-3} alkylamino-C_{1-3} alkyl, C_{1-3} dialkylamino-C_{1-3} alkyl and C_{1-6} alkyl optionally substituted with hydroxy, alkoxy, thiol, alkylthio, halogen.

4. (original) A compound according to claim 3 wherein R^1 is methyl, ethyl, trifluoromethyl or halogen.

5. (original) A compound according to claim 4 wherein R^5 is monosubstituted phenyl.

6. (original) A compound according to claim 4 wherein R^5 is 2,5-disubstituted phenyl.

7. (original) A compound according to claim 4 wherein R^5 is 3,5-disubstituted phenyl.

8. (original) A compound according to claim 4 wherein R^5 is 2,4-disubstituted phenyl.

9. (original) A compound according to claim 4 wherein R^5 is 2,6-disubstituted phenyl.

10. (original) A compound according to claim 2 wherein:

X^1 is $-OR^5$ or $-SR^5$;

R^1 and R^2 are independently selected from the group consisting of hydrogen, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{3-8} cycloalkyl, C_{1-6} alkoxy, C_{1-6} alkylthio, C_{1-6} alkylsulfinyl, C_{1-6} sulfonyl, C_{1-6} haloalkoxy, C_{1-6} haloalkylthio, halogen, amino, alkylamino, dialkylamino, aminoacyl, nitro and cyano; and

R^3 is hydrogen or fluorine.

11. (original) A compound according to claim 10 wherein:

X^1 is OR^5;

R^1 is methyl, ethyl, trifluoromethyl or halogen;

R^2 and R^4 are hydrogen, fluoro, chloro, methyl or ethyl;

R^3 is hydrogen or fluoro;

R^7 is hydrogen, methyl or ethyl; and,

R^8 is selected from the group consisting of hydrogen, amino, C_{1-6} alkylamino, C_{1-6} dialkylamino, amino-C_{1-3} alkyl, C_{1-3} alkylamino-C_{1-3} alkyl, C_{1-3} dialkylamino-C_{1-3} alkyl and C_{1-6} alkyl optionally substituted with hydroxy, alkoxy, thiol, alkylthio, halogen.

12. (original) A compound according to claim 11 wherein R^5 is monosubstituted phenyl.

13. (original) A compound according to claim 12 wherein R^5 is a monosubstituted phenyl and the substituent is selected from the group consisting of halogen, cyano, C_{1-6} alkyl, C_{1-6} alkenyl, C_{3-8} cycloalkyl, C_{1-6} haloalkyl, C_{1-6} alkoxy, C_{1-6} alkylthio and C_{1-6} haloalkoxy.

14. (original) A compound according to claim 13 wherein R^1 is selected from the group consisting of halogen, methyl, ethyl, R^3 and R^7 are hydrogen, R^5 is a monosubstituted phenyl and the substituent is selected from the group consisting of halogen, cyano, C_{1-6} alkyl and C_{1-6} haloalkyl and R^8 is selected from the group consisting of hydrogen, methyl and ethyl.

15. (original) A compound according to claim 11 wherein R^5 is 2,5-disubstituted phenyl.

16. (original) A compound according to claim 15 wherein R^5 is a 2,5-disubstituted phenyl and the substituents are independently selected from the group consisting of halogen, cyano, C_{1-6} alkyl, C_{1-6} alkenyl, C_{3-8} cycloalkyl, C_{1-6} haloalkyl, C_{1-6} alkoxy, C_{1-6} alkylthio and C_{1-6} haloalkoxy.

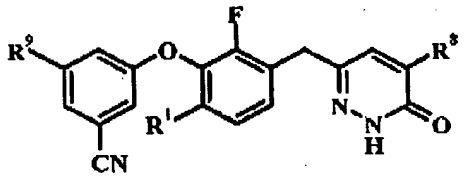
17. (original) A compound according to claim 16 wherein R^1 is selected from the group consisting of halogen, methyl, ethyl, R^3 and R^7 are hydrogen, R^5 is a 2,5-disubstituted phenyl and the substituent is selected from the group consisting of halogen, cyano, C_{1-6} alkyl and C_{1-6} haloalkyl and R^8 is selected from the group consisting of hydrogen, methyl and ethyl.

18. (original) A compound according to claim 11 wherein R^5 is 3,5-disubstituted phenyl.

19. (original) A compound according to claim 18 wherein R^5 is a 3,5-disubstituted phenyl and the substituents are independently selected from the group consisting of halogen, cyano, C_{1-6} alkyl, C_{1-6} alkenyl, C_{3-8} cycloalkyl, C_{1-6} haloalkyl, C_{1-6} alkoxy, C_{1-6} alkylthio and C_{1-6} haloalkoxy.

20. (original) A compound according to claim 19 wherein R^1 is selected from the group consisting of halogen, methyl, ethyl, R^3 and R^7 are hydrogen, R^5 is a 3,5-disubstituted phenyl and the substituent is selected from the group consisting of halogen, cyano, C_{1-6} alkyl and C_{1-6} haloalkyl and R^8 is selected from the group consisting of hydrogen, methyl and ethyl.

21. (original) A compound according to claim 20 with formula Ia wherein:



(Ia)

R^1 is selected from the group consisting of fluoro, chloro, bromo and methyl;

R^8 is selected from the group consisting of hydrogen, methyl and ethyl;

R^9 is selected from the group consisting of C_{1-6} alkyl, C_{3-8} cycloalkyl, C_{1-6} haloalkyl, halogen and cyano.

22. (original) A compound according to claim 11 wherein R^5 is 2,4-disubstituted phenyl.

23. (original) A compound according to claim 22 wherein R^5 is a 2,4-disubstituted phenyl and the substituents are independently selected from the group consisting of halogen, cyano, C_{1-6} alkyl, C_{1-6} alkenyl, C_{3-8} cycloalkyl, C_{1-6} haloalkyl, C_{1-6} alkoxy, C_{1-6} alkylthio and C_{1-6} haloalkoxy.

24. (original) A compound according to claim 23 wherein R^1 is selected from the group consisting of halogen, methyl, ethyl, R^3 and R^7 are hydrogen, R^5 is a 2,4-disubstituted phenyl and the substituent is selected from the group consisting of halogen, cyano, C_{1-6} alkyl and C_{1-6} haloalkyl and R^8 is selected from the group consisting of hydrogen, methyl and ethyl.

25. (original) A compound according to claim 11 wherein R^5 is 2,6-disubstituted phenyl.

26. (original) A compound according to claim 25 wherein R^5 is a 2,6-disubstituted phenyl and the substituents are independently selected from the group consisting of halogen, cyano, C_{1-6} alkyl, C_{1-6} alkenyl, C_{3-8} cycloalkyl, C_{1-6} haloalkyl, C_{1-6} alkoxy, C_{1-6} alkylthio and C_{1-6} haloalkoxy.

27. (original) A compound according to claim 26 wherein R^1 is selected from the group consisting of halogen, methyl, ethyl, R^3 and R^7 are hydrogen, R^5 is a 2,6-disubstituted phenyl and the substituent is selected from the group consisting of halogen, cyano, C_{1-6} alkyl and C_{1-6} haloalkyl and R^8 is selected from the group consisting of hydrogen, methyl and ethyl.

28. (original) A compound according to claim 11 wherein R^5 is a 2,3,5-trisubstituted phenyl.

29. (original) A compound according to claim 1 wherein:

X^1 is OR^5 or SR^5;

R^3 and R^4 are selected from the group consisting of hydrogen, chloro, fluoro, and methyl;

R^5 is optionally substituted pyridinyl, pyridine N-oxide, indole, indole N-oxide, quinoline, quinoline N-oxide, pyrimidinyl, pyrazinyl and pyrrolyl.

30. (original) A compound according to claim 1 wherein R^1 and R^2 along with the carbon atoms to which they are attached form a phenyl, dihydropyran, dihydrofuran or furan ring.

31. (original) A compound according to claim 30 wherein:

X^1 is OR^5 or SR^5;

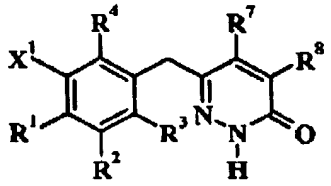
R^3, and R^7 are hydrogen;

R^4 is hydrogen or fluoro;

R^8 is hydrogen or methyl; and,

R^5 is optionally substituted phenyl.

32. (previously amended) A method for treating an HIV-1 infection comprising administering to a host in need thereof a therapeutically effective amount of a compound of formula I



(I)

wherein,

X^1 is selected from the group consisting of R^5O, R^5S, R^5CH_2, R^5CH_2O, $R^5CH_2S(O)_m$, R^5OCH_2, $R^5S(O)_mCH_2$, $NR^5R^6$and $R^5C(=O)$;

R^1 and R^2 are

(i) each independently selected from the group consisting of hydrogen, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{3-8} cycloalkyl, C_{1-6} alkoxy, C_{1-6} alkylthio, C_{1-6} alkylsulfinyl, C_{1-6} sulfonyl, C_{1-6} haloalkoxy, C_{1-6} haloalkylthio, halogen, amino, alkylamino, dialkylamino, aminoacyl, nitro and cyano; or,

(ii) taken together are -CH=CH-CH=CH-, or

(iii) taken together along with the carbons to which they are attached form a five- or six-membered heteroaromatic or heterocyclic ring with a one or two heteroatoms independently selected from the group consisting of O, S and NH;

R^3 and R^4 are each independently selected from the group consisting of hydrogen, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{3-8} cycloalkyl, C_{1-6} alkoxy, C_{1-6} alkylthio, C_{1-6} haloalkoxy, C_{1-6} haloalkylthio, halogen, amino, alkylamino, dialkylamino, aminoacyl, nitro and cyano;

R^5 is selected from the group consisting of alkyl, haloalkyl, cycloalkyl, phenyl, naphthyl, pyridinyl, pyrimidinyl, pyrazinyl and pyrrolyl; wherein,

said alkyl and said cycloalkyl are optionally substituted with one or two substituents independently selected from the group consisting of alkyl, hydroxy, alkoxy, thiol, alkylthio, halogen, amino, alkylamino, dialkylamino, aminoalkyl, alkylaminoalkyl, and dialkylamino; and,

said phenyl, said naphthyl, said pyridinyl, said pyrimidinyl, said pyrazinyl and said pyrrolyl groups are optionally substituted with one to three substituents independently selected from the group consisting of hydrogen, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{3-8} cycloalkyl, C_{1-6} alkoxy, C_{1-6} alkylthio, C_{1-6} alkylsulfinyl, C_{1-6} sulfonyl, C_{1-6} haloalkoxy, C_{1-6} haloalkylthio, hydroxy, halogen, amino, alkylamino, dialkylamino, aminoacyl, acyl, alkoxycarbonyl, carbamoyl, N-alkylcarbamoyl, N,N-dialkylcarbamoyl, nitro and cyano;

R^6 is hydrogen, C_{1-6} alkyl, or acyl;

R^7 and R^8 taken independently are selected from the group consisting of hydrogen, , amino, C_{1-6} alkylamino, C_{1-6} dialkylamino, amino-C_{1-3} alkyl, C_{1-3} alkylamino-C_{1-3} alkyl, C_{1-3} dialkylamino-C_{1-3} alkyl or C_{1-6} alkyl optionally substituted with one or two substituents independently selected from the group consisting of hydroxy, alkoxy, thiol, alkylthio, C_{1-6} alkylsulfinyl, C_{1-6} sulfonyl and halogen, N-morpholinyl;

n is an integer from 0 to 2;

or an acid addition salt thereof.

33. (original) A method according to claim 32 wherein:

X^1 is OR^5;

R^1 is methyl, ethyl, trifluoromethyl or halogen;

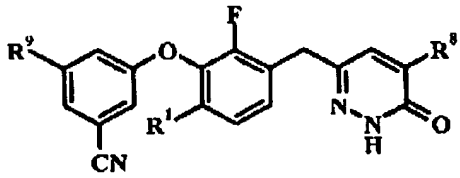
R^2 and R^4 are independently hydrogen, fluoro, chloro, methyl or ethyl;

R^3 is hydrogen or fluoro; and,

R^5 is optionally substituted phenyl;

R^7 is hydrogen, methyl or ethyl.

34. (original) A method according to claim 33 comprising administering a compound of formula Ia wherein



(Ia)

R^1 is selected from the group consisting of fluoro, chloro, bromo and methyl;

R^8 is selected from the group consisting of hydrogen, methyl and ethyl;

R^9 is selected from the group consisting of alkyl, cycloalkyl, haloalkyl, halogen and cyano.

35. (previously amended) A method for treating an HIV-1 infection according to claim 32 further comprising co-administering at least one compound selected from the group consisting of HIV protease inhibitors, nucleoside reverse transcriptase inhibitors, non-nucleoside reverse transcriptase inhibitors, CCR5 inhibitors and viral fusion inhibitors.

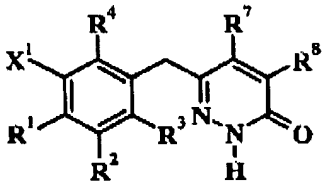
36. (original) A method according to claim 35 wherein the reverse transcriptase inhibitor is selected from the group consisting of zidovudine, lamivudine, didanosine, zalcitabine, stavudine, rescriptor, sustiva and viramune, efavirenz, nevirapine or delavirdine and/or the protease inhibitor is selected from the group consisting of saquinavir, ritonavir, nelfinavir, indinavir, amprenavir, lopinavir.

37. (**currently** amended) A method for inhibiting a HIV-1 reverse transcriptase comprising administering a compound according to claim 1 [[32]].

38. (**currently** amended) A method according to claim 37 wherein the ~~host is infected with a strain of~~ HIV-1 ~~expressing a~~ reverse transcriptase ~~with~~ contains at least one mutation compared to wild type virus.

39. (previously amended) A method according to claim 32 wherein said strain of HIV-1 exhibits reduced susceptibility to efavirenz, nevirapine or delavirdine.

40. (**currently** amended) A pharmaceutical composition comprising a therapeutically effective quantity of a compound of formula I



(I)

wherein:

X^1 is selected from the group consisting of R^5O, $R^5S(O)_n$, R^5CH_2, R^5CH_2O, $R^5CH_2S(O)_m$, R^5OCH_2, $R^5S(O)_nCH_2$ and NR^5R^6;

R^1 and R^2 are

(i) each independently selected from the group consisting of hydrogen, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{3-8} cycloalkyl, C_{1-6} alkoxy, C_{1-6} alkylthio, C_{1-6} alkylsulfinyl, C_{1-6} sulfonyl, C_{1-6} haloalkoxy, C_{1-6} haloalkylthio, halogen, amino, alkylamino, dialkylamino, aminoacyl, nitro and cyano; or,

(ii) taken together are -CH=CH-CH=CH-, or

(iii) taken together along with the carbons to which they are attached form a five- or six-membered heteroaromatic or heterocyclic ring with a one or two heteroatoms independently selected from the group consisting of O, S and NH;

R^3 is selected from the group consisting of hydrogen, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{3-8} cycloalkyl, C_{1-6} alkylthio, C_{1-6} haloalkylthio, halogen, amino, alkylamino, dialkylamino, aminoacyl, nitro and cyano;

R^4 is selected from the group consisting of hydrogen, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{3-8} cycloalkyl, C_{1-6} alkoxy, C_{1-6} alkylthio, C_{1-6} haloalkoxy, C_{1-6} haloalkylthio, halogen, amino, alkylamino, dialkylamino, aminoacyl, nitro and cyano;

R^5 is selected from the group consisting of alkyl, haloalkyl, cycloalkyl, phenyl, naphthyl, pyridinyl, pyrimidinyl, pyrazinyl and pyrrolyl; wherein,

said alkyl and said cycloalkyl are optionally substituted with one or two substituents independently selected from the group consisting of alkyl, hydroxy, alkoxy, thiol, alkylthio, halogen, amino, alkylamino, dialkylamino, aminoalkyl, alkylaminoalkyl, and dialkylamino; and,

said phenyl, said naphthyl, said pyridinyl, said pyrimidinyl, said pyrazinyl and said pyrrolyl groups are optionally substituted with one to three substituents independently selected from the group consisting of hydrogen, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{3-8} cycloalkyl, C_{1-6} alkoxy, C_{1-6} alkylthio, C_{1-6} alkylsulfinyl, C_{1-6} sulfonyl, C_{1-6} haloalkoxy, C_{1-6} haloalkylthio, hydroxy, halogen, amino, alkylamino, dialkylamino, aminoacyl, acyl, alkoxycarbonyl, carbamoyl, N-alkylcarbamoyl, N,N-dialkylcarbamoyl, nitro and cyano;

R^6 is hydrogen, C_{1-6} alkyl, or acyl;

R^7 and R^8 taken independently are selected from the group consisting of hydrogen amino, C_{1-6} alkylamino, C_{1-6} dialkylamino, amino-C_{1-3} alkyl, C_{1-3} alkylamino-C_{1-3} alkyl, C_{1-3} dialkylamino-C_{1-3} alkyl or C_{1-6} alkyl optionally substituted with one or two substituents independently selected from the group consisting of hydroxy, alkoxy, thiol, alkylthio, C_{1-6} alkylsulfinyl, C_{1-6} sulfonyl and halogen, N-morpholinyl; n is an integer from 0 to 2;

or an acid addition salt thereof,

in admixture with at least one pharmaceutically acceptable carrier or diluent ~~sufficient upon administration in a single or multiple dose regimen for treating diseases mediated by human immunodeficiency virus inhibit HIV~~.

41-51. (canceled)

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